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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/756,821	01/09/2001	Kevin A. McCullough	P00405-US1	6144
3017 7	590 01/23/2003			
•	OSEPHS & HOLME	EXAMINER		
101 DYER ST 5TH FLOOR			ROSENBAUM, IRENE CUDA	
PROVIDENCI	E, RI 02903		ART UNIT	PAPER NUMBER
			3726	
			DATE MAILED: 01/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	09/756,821	MCCULLOUGH, KEVIN A.				
Offic Action Summary	Examiner	Art Unit				
•	Irene Cuda-Rosenbaum	3726				
The MAILING DATE of this communicatio						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ION. CFR 1.136(a). In no event, however, may a reply bloon. s, a reply within the statutory minimum of thirty (30) period will apply and will expire SIX (6) MONTHS as a statute, cause the application to become ABAND	to timely filed days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed or	n <u>20 December 2002</u> .					
2a) ☐ This action is FINAL . 2b) ⊠	This action is non-final.					
3) Since this application is in condition for a						
closed in accordance with the practice u Disposition of Claims	inder <i>Ex parτe Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.				
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docu	ments have been received					
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign languag 15)☐ Acknowledgment is made of a claim for do						
Attachment(s)	, , , ,					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449) Paper N	18) 5) Notice of Inform	mary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-2,4-7 and 9-10 are rejected under 35 U.S.C. 102(e) as being Clearly anticipated by Mashiko et al(6,253,829).see in particular column 16, lines 5-31 (providing a tubular pipe, then casting molten metal around the tube, sealing the tube after the metal is cast and the working fluid is added), column 15, lines 55-60 (molten metal is AL), and claim 5 (injecting the working fluid after the molten material has solidigfied). Column 16, lines 5-31 further state that the fluid injected is water (claim 7 and 10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mashiko et al. Mashiko et al teach the method essentially as claimed but lack a teaching of the molten material which is overmolded on the heat pipe being a thermally conductive polymer. However, to use thermally conductive in overmolding heat pipes is considered an obvious variation of materials used, and would have been obvious to one of ordinary skill in the art at the time the invention was made and official notice is taken of such.

Claims 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mashiko et al in view of AAPA. Mashiko et al teach the method of making a heat pipe essentially as claimed but lacking a teaching of filling the pipe with ammonia. However, AAPA on page 3, lines 8-10, state that vaporized water or ammonia are commonly used as the working fluid. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method as taught by Mashiko et al by using ammonia as the working fluid, since to do so is old and well known as taught by AAPA for the purpose of facilitating the transfer of heat.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Cuda-Rosenbaum whose telephone number is 703-308-1792. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Vidovich can be reached on 308-1148. The fax phone numbers for the organization where this application or proceeding is assigned are 7033087058 for regular communications and 7033087058 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1148.

ICR January 20, 2003 Jachfornbar AU 3720